Some Theorems on the Boundedness and Stability 307/155-58-4-9/34 of Solutions of Systems of Differential Equations of the Form

$$\ddot{x}_{i} + a_{i}(t) \sum_{k=1}^{n} b_{i,k}(t) \dot{x}_{k} + a_{i}(t) \frac{\partial P}{\partial x_{i}} = 0$$

$$\sum_{i,k=1}^{n} b_{i,k}(t) \xi_{i} \xi_{k} \ge 0 \quad \text{for all $t \geqslant 0.$ Then all the}$$

solutions of the equation of the title are bounded for $t \ge 0$. Theorem : All the solutions of the equation of the title are continuable and bounded, if

$$\int_{0}^{\infty} |a_{1}'(t)| dt < \infty , \quad 0 < \omega \leq a_{1}(t) \leq \beta < \infty , \quad t \in [0, \infty)$$

and if F and $\sum_{i,k} b_{i,k} E_i E_k$ satisfy the suppositions of the first theorem.

Card 2/3

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Some Theorems on the Boundedness and Stability of Solutions of Systems of Differential Equations of the Form 507/155-58-4-9/34

 $\ddot{x}_{i} + a_{i}(t) \sum_{k=1}^{n} b_{i,k}(t) \dot{x}_{k} + a_{i}(t) \frac{\partial p}{\partial x_{i}} = 0$

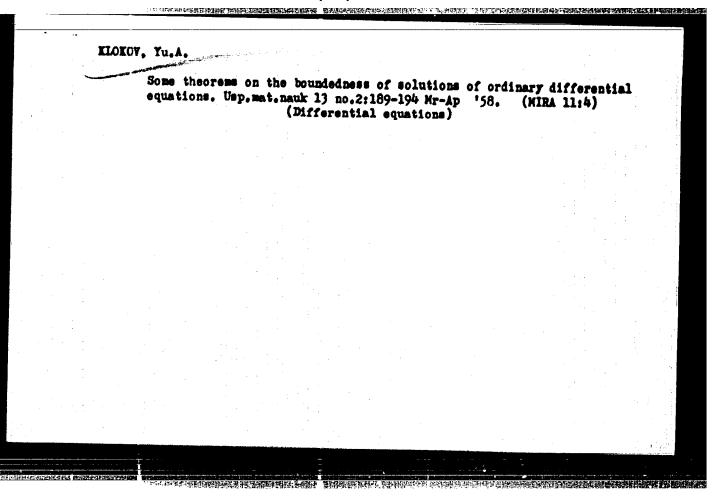
The author thanks V.V. Henytskiy for remarks.

There are 3 references, 2 of which are Soviet, and 1 American. ASSOCIATION: Noskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova

(Moscow State University imeni M.V. Lomonosov)

SUBMITTED: June 4, 1958

Card 3/3



Simil problem for the ordinary differential equation of the construction of the constr

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AUTHOR:
         Klokov, Yu.
         On the Limit - Boundary Value Problem for a System of
         Ordinary Differential Equations of Second Order
PERIODICAL: Vestnik Moskovskogo universiteta. Seriya matematiki,
             mekhaniki, astronomii, fiziki, khimii, 1959, No. 5,
              pp. 197-204
TEXT: Let the problem
(1) \ddot{x} = f(x, \dot{x}),
                       (1') x(0) = a, x(\infty) = b, be considered, where
f(x,y) is a function continuous in all 2n variables which satisfies
the Lipschitz condition in every bounded domaim.
Theorem 2: If for the system (1) the condition
(B)
        |f(x,y)| \leq \tilde{g}(r)(1+y^2)
is satisfied, where c(r) is a continuous nonnegative function, then
for the existence of a solution of (1) - (1') it is necessary that
f(b,0) = 0.
Let the system
(10)
        x = Ax + Bx + f(x, x)
Card 1/3
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On the Limit - Boundary Value Problem for a System of Ordinary Differential Equations of Second Order

and

(10')
$$x(0) = a$$
, $x(\infty) = 0$

be given, where f(0,0) = 0, f(x,y) is continuously differentiable and $|f|_{x}(x,y)| + |f|_{y}(x,y)| \to 0$ for $|x| + |y| \to 0$. Let the equation

(6) Det $|A + B\lambda - I|_{\infty}^{2} = 0$

have n roots with positive and negative real parts each. Let

(7)
$$x_i(t) = \sum_{k \neq 1} c_k x_{ijk}(t)$$

be the general solution of

$$(5) \qquad x = Ax + Bx$$

and let

Then for every sufficiently small vector x(0) = a there exists one and only one solution of (10), (10), where the solution x(t) satisfies the system $\dot{x} = \alpha x + \phi(x)$, with $\phi(x)$ continuously differentiable and

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8/055/59/000/05/017/020 On the Limit - Boundary Value Problem for a System of Ordinary Differential Equations of Second Order

 $|\phi'(x)| \rightarrow 0$ for $x \rightarrow 0$. If f(x,y) is analytic in a neighborhood of zero, then so is $\phi(x)$.

S. N. Bernshteyn, A. M. Lyapunov, and J. G. Petrovski; are mentioned

There are 8 references: 5 Soviet, 2 American and 1 German.

SUBMITTED: December 29, 1958

Card 3/3

16(1) 06309 AUTHOR: Klokov, Yu.A. 307/140-59-6-10/29 A Limit Boundary Value Problem for the Equation $x+if(x,i)+\varphi(x)=0$ TITLE: PERIODICAL: Isvestiya vysshikh uchebnykh savedeniy. Matematika, 1959, Nr 6, pp 72-80 (USSR) The author considers the problem ABSTRACT: $\mathbf{x} + \mathbf{t}f(\mathbf{x}, \mathbf{t}) + \varphi(\mathbf{x}) = 0$ $x(0) = x_0, x(\infty) = \infty,$ where f(x,y) and $\phi(x)$ and their first derivatives are assumed to Theorem 1: Let x(t), $0 \le t \le +\infty$ be a solution of (1). If x(t) for $t\to +\infty$ tends to a finite limit value, then $t(t)\to 0$ for $t\to +\infty$. Theorem 2: $\varphi(\omega) = 0$ is necessary for the existence of a solution of (1) (11). Theorem 3: Let $\varphi(0) = 0$, $x\psi(x) < 0$ for $x \neq 0$ and $|f(x,y)| \leq a(x)|y| + b(x)$. Then for every x there exists only one value to for which

 $x(t) \rightarrow 0$ for $t \rightarrow +\infty$. Theorem 4: If

 $k = \frac{f(0,0)}{2} + \sqrt{\frac{f^2(0,0)}{4} - \varphi'(0)} > 0$

Card 1/3

A Limit Boundary Value Problem for the Equation SOV/140-59-6-10/29 it+if(x,i)+
$$\varphi(x)=0$$
 then $x(t)=x_0e^{-kt}[1+\mathcal{E}(t)]$. Theorem 5: If $f(0,0)<0$ and $\varphi^1(x)\to 0$ for $x\to 0$, then $\frac{1}{t}=-\frac{\varphi(x)}{f(0,0)}[1+\mathcal{E}(t)]$. Theorem 6: If for a $p>0$

$$\lim_{x\to 0} \frac{\int_{-2(p+1)x^p}^{-f(x,0)} + \sqrt{\frac{f^2(x,0)}{4(p+1)^2x^{2p}} - \frac{\varphi(x)}{(p+1)x^{2p+1}}} = k>0$$
and k is finite, then $-\frac{1}{x^{p+1}}=k+\mathcal{E}_1(t)$ and $x(t)=(\frac{1}{pkt})^{1/2}[1+\mathcal{E}(t)]$, where ℓ , ℓ _1 \to 0 for $t\to +\infty$. Theorem 7: If $\lim_{x\to 0} \frac{f(x,0)}{x^p} < 0$ for a $p>0$ and $\lim_{x\to 0} \frac{\varphi^1(x)}{x^{2p}} = 0$, then $\frac{1}{x^2}=-\frac{\varphi(x)}{f(x,0)}[1+\mathcal{E}(t)]$.

Card 2/3

Card 1/3

16.3501 **61/:**19/004/003/025 AUTHOR: Klokev, Yu. A. TITLE: A boundary value problem with conditions at 1 m Akademiya nauk SSSR. Doklady, v. 139. no. 34. 1961, PERIODICAL: 799-801 TEXT: Consider the boundary value problems $\ddot{x} + f(t, x, \dot{x}) \dot{x} = 0;$ (1) x(- 00) * 8, x(+ 00) * b. (11) and $\ddot{x} + \varphi(\dot{x}, \dot{x}, \ddot{x}) \ddot{x} = 0$ (5) $k(-\infty) = a, x(0) = b, x(+\infty) = x(21)$ where a, t, c are given numbers, f is defined in the entire space (t,x,y), continuous in t, satisfies the Lipschitz condition in x,y in every bounded domain, and where $\varphi(x,y,z)$ partialies the Lipschitz condition in every bounded domain of the apace (x,y,z).

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where the dash denotes the differentiation with respect to x. Thereby the problem (2), (2') is reduced to (1), (1'). If (3), (3') has a unique solution, then the solution of (2), (2') is unique too.

If a < 0, a > 0, then the uniqueness of the solution of (2), (2') is in general not guaranteed.

There are 2 Soviet-bloo references and 'non-Soviet-bloo reference. The reference to English-language publication resis as follows: L. G. Napolitano, Quart. Appl. Math., 15, No. 4, 397 (1979).

PRESENTED: March 18, 1961, by J. G. Petrovskiy, Acedemician SUBMITTED: March 11, 1961

Card 3/3

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8/199/63/004/001/003/005 B112/B102

AUTHOR:

Klokov, Yu. A.

TITLE:

The boundary-value problem for the second-order differential equation

PERIODICAL: Sibirskiy matematicheskiy zhurnal, v. 4, no. 1, 1965, 86 - 96

TEXT: The solution of the general boundary-value problem $X = f(t, x, \frac{1}{x})$,(11) x(0) = a, x(1) = b (11') is approximated by a sequence of functions $x_{n+1}(t)$ which satisfy the Eqs. $X_{n+1} = (1-c)X_n + cf(t, x_n, \frac{1}{x}) + f'(t, x_n, \frac{1}{x})(\frac{1}{x} - \frac{1}{x}) + x_{n+1}(0) = a, x_{n+1}(1) = b$. The parameter of must be assumed sufficiently small. There is 1 figure.

SUBMITTED: May 5, 1961

Card 1/1

一一一一个人,以外的一个人,这个人,这个人,这个人,这个人,这个人,这个人,我们也不是一个人,我们也不是一个人,我们也不是一个人,我们也不是一个人,我们也不是一个人,我们

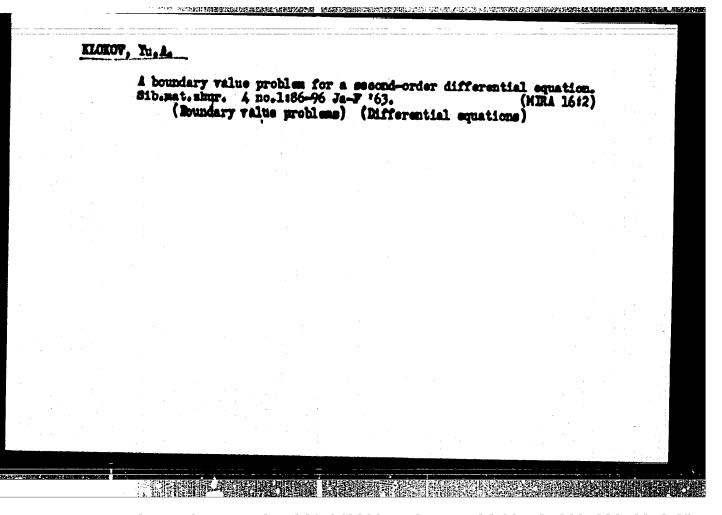
Boundary value problem with conditions at infinity for an ordinary second-order differential equation. Usp.mat.nauk 17 no.6:145=149 N-D '62. (MURA 16:1) (Boundary value problems) (Differential equations)

Replacing differential equations by difference equations in solving a Cauchy problem. Isv.vys. ucheb. sav.; mat. no.2:53-59 '63.

(MIRA 16:3)

(Differential equations)

(Difference equations)



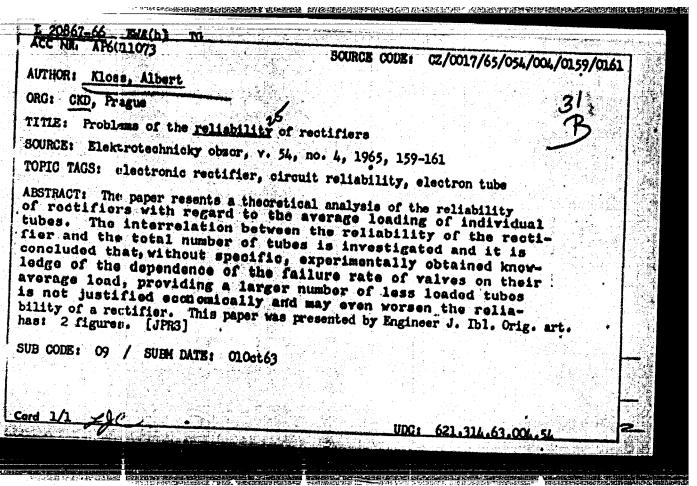
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KLOKOV, Yu.A.

Boundary value problems with conditions at infinity for ordinary differential equations. Sib.mat.shur.4 no.6:1318-1327 N-D '63. (MIRA 17:9)

RLOKEV, Yu.A. (N'at) Method for solving boundary value problems with conditions at infinity. Mat. ebor. 67 no.2:161-166 Je *65. (MIRA 18:8)

L 22108-66 ENT(4) IJP(a) ACC NR. AP6012667 UR/0039/65/067/002/0161/0166 AUTHOR: Klokov, Yu. A. (Rige) ORG: none A. 447538 TITLE: Mathod of solving boundary value problems with a condition imposed at infinit SOURCE: Natematicheskly sbornik, v. 67, no. 2, 1965, 161-166 TOPIC TAGS: boundary value problem, mathematics ABSTRACT: An effective method is sought for solving a boundary value problem of the $x(0) = a, /x(t)/<const (0 \le t < co).$ A restriction at infinity makes it difficult to use numerical methods. Under certain broad assumptions, when n \rightarrow 00, the sequence of functions $x_n(t)$ (n=1,2,...) tends toward solutions of the problem uniformly in each finite interval. Convergence can be strengthened in many cases. Detailed proofs are given. Orig. art. has: 9 SUB CODE: SUBM DATE: 16May63 ORIG REF: **Card** 1/1 BLG



ACC NRI AR6C16600

SOURCE CODE: UR/0044/65/000/012/8039/8039

AUTHOR: Klokov, Yu. A.

TITLE: Boundary value problems with a condition at infinity for equations of mathematical physics >

SOURCE: Ref. sh. Matematika. Abs. 12B200

REF SOURCE: Krayevyye zadachi s usloviyem na beskonechnosti dlya uravneniy matematicheskoy fiziki. Riga, Rizhsk. in-t inzh. grazhd. vozd. flota. 1963, 107 str.

TOPIC TACS: boundary value problem, nonlinear differential equation, existence, uniqueness, approximation convergence, mathematic physics

ABSTRACT: The monograph contains work by the author, the majority of which was published earlier (RZhMat, 1959, 351; 1960, 11588; 1961, 18135, 38164, 108104; 1962, 38191; 1964, 48219, 48220). In part I a series of results is presented concerning existence and uniqueness of the solution of the regular problem $\ddot{x} = f(1,x,\dot{x})$, $x(\alpha) = a x(\beta) = b$ for any values of α and β . The author notes the role of the Bernshtein condition $|f(t,x,y)| \leq c(t,x)(1+y^2)$ for existence of a solution. Part II deals with existence, uniqueness, and continuous dependence of the solution of the equation $\ddot{x} = f(t,x,\dot{x})$ under certain of the following singular boundary conditions:

z(0) = a, $z(\infty) = b$; z(0) = a, |z| < const, $|C(0, \infty)$; |z| < const, $|C(0, \infty)| < const$, $|C(0, \infty)|$

Card 1/2

UDC: 517.934

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In part III the author considers boundary conditions. In part IV $x^{(k)}(0) = a_k \ (k=0, \dots, n-2), \ x (t) < \text{const.}$ autonomous cases separately. The of approximate methods for const.	he investigate $(0, \infty)$. In all is first three struction of a so	s the problem x ⁽ⁿ⁾ all the sections he structions conclude with lution. In section	f(t;x,,x ⁽ⁿ⁻¹⁾); budies the th an investigation II this method is
based on convergence of the sequ			
$x_n(n) = 0$, $n = 1,2,$, to the solution of abstract/			
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where sin	(4) /1: U is a cosing seretic of an ideal filter.	ries expansion of the frequency characteristic nufit ter with characteristic for k > N.	
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filtration	rocess adopted from the	references). The charm make	iverag-
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filtration tics; this cy characte	rocess adopted from the involves some distortion can be easily corrected ristic in the interval	references). The charm make	iverag-

BALAKIREV, V.S.; DUDNIKOV, Yo.G.; KLOKOV, Yu.L.; MASLENNIKOV, I.M.; TSIRLIN, A.M.

Solving some problems of automatic control by means of the analogue digital computer. Trudy MIKHM 25:3-17 '63.

(MIRA 17:6)

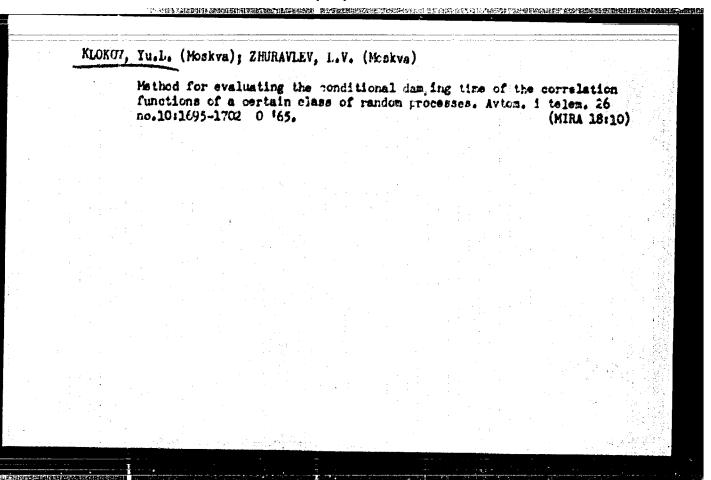
KLOKOV, Tu.L.; MASLEVHIKOV, I.M.

Methodology of the experimental determination of the statistical characteristics of random processes in industrial control systems. Trudy MIKHM 25:102-112 '63. (MIRA 17:6)

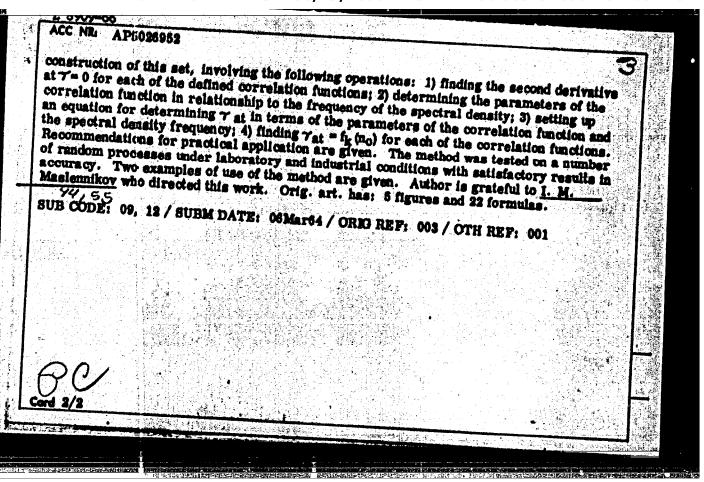
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KLCKCV, Yu.L. (Moskva)

Evaluation of sampling interval in calculating spectral densities of random processes. Avtom. i telem. 25 no.31356-367 Mr 164. (MIRA 1716).



مرح به المحمد	UR/0103/65/026/010/1695/1702
AUTHOR: Klokov, Yu. L. (Moscow); Zhuravlev, L. V.	(Moscow) 39
ORG: None	
TITLE: A method for evaluating the conditional attenual of a certain class of random processes	tion time of correlation functions
SOURCE: Aviomatika i telemekhanika, v. 26, no. 10, 1 TOPIC TACE: random process, correlation function, at	
ABSTRACT: The authors develop a simple and convenie tional attenuation time Tat of correlation functions of a The method is based on the formula for the average num normal stationary differentiable random process with a number of zeros is expressed in terms of the second der function at T=0.	certain class of stochastic processes. ber of zeros per unit of time in a
i no = = 7 - 0 (0).	
	set of functions $\gamma_{at} = f_k$ (no) correspond. The problem is solved by partial
where ρ (7) is the normalized correlation function. The ponding to a set of ρ (7) defined in the paper is considered.	set of functions $\gamma_{at} = f_k$ (no) corres- id. The problem is solved by partial



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Klokov, Yu.L. (Moscow)	S/039/61/053/002/003/003 C111/C222	·
A method for the solution problem for an ordinary di order	of the limit boundary value ifferential equation of second	
L: Matematicheskiy sbornik, v	rol.53, no.2, 1961, 219-232	
e author gives methods for th	e solution of the problems	
$x(0) = a, x(\infty) = 0$	(1) (11)	
$\dot{x} = \varphi(t,x) + \dot{x}f(t,x,\dot{x}),$	(10)	
ely. Which are called limit be	(10') pundary value problems.	X
bronzem		
	(14)	
	order L: Matematicheskiy sbornik, we author gives methods for the $\dot{x} = \varphi(x) + \dot{x}f(x,\dot{x})$, $\dot{x}(0) = a$, $\dot{x}(\infty) = 0$ $\dot{x} = \varphi(t,x) + \dot{x}f(t,x,\dot{x})$, $\dot{x}(0) = a$, $\dot{x}(\infty) = 0$, which are called limit be alized problem $\dot{x} = f(t,x,\dot{x})$ $\dot{x}(0) = a$, $\dot{x}(t) \in C \in \mathbb{R}$	S/039/61/053/002/003/003 Klokov, Yu.L. (Moscow) A method for the solution of the limit boundary value problem for an ordinary differential equation of second order L: Matematicheskiy sbornik, vol.53, no.2, 1961, 219-232 e author gives methods for the solution of the problems x = ψ(x)+xf(x,x), x(0) = a, x(∞) = 0 x = ψ(t,x)+xf(t,x,x), x(0) = a, x(∞) = 0, y, which are called limit boundary value problems. x = f(t,x,x) x(0) = a, x(t) ≤ C < m = 0.446 (14)

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A method for the solution...

\$/039/61/053/002/003/003 C111/C222

In § 1 the author considers (1),(1'), where $\varphi(x)$, f(x,y) are defined and continuous for all x,y and satisfy the Lipschitz condition in every finite interval. Besides: $\varphi(0) = 0$; $x \varphi(x) > 0$ for $x \neq 0$; $\{f(x,y)\} \leq c(x)(1+|y|)$; $|x| < \infty$; c(x) > 0 == continuous. Then for every a there exists a unique solution (Ref.6: Yu.L.Klokov, Odna predel'naya krayevaya zadacha dlya uravneniya $\ddot{x}+\dot{x}f(x,\dot{x})+\varphi(x)=0$ [A limit boundary value problem for the equation $\ddot{x}+\dot{x}f(x,\dot{x})+\varphi(x)=0$], Izv.YUZ'ov, no.6 (1959), 72-80). The equation (1) is replaced by

$$\frac{dy}{dx} = \frac{f(x)}{y} + f(x,y), \tag{2}$$

and it is proved that the solution of (2) can be obtained with the difference method

$$\frac{y_{k+1} - y_k}{h} = \frac{\varphi_{k+1}}{y_{k+1}} + f_k, \tag{3}$$

where

$$x_k = kh (k=0,1,...,n), x_n = nh = a, \varphi_k = \varphi(x_k),$$
Card 2/6
$$f_k = f(x_k,y_k), y_0 = 0.$$

A method for the solution ...

S/039/61/053/002/003/003 C111/C222

For the proof the author considers the sequence $\{y_n(x)\}$, where $y_k(x)$, $0 \le x \le a$, h>0 is a continuous function which in x_k assumes the value y_k and on $[x_k, x_{k+1}]$ it is linear. The author proves the uniform boundedness and equicontinuous continuity of $\{y_h(x)\}$ and the he uses the theorem In § 2 the author considers (10),(10'), where $\varphi(t,x)$ and f(t,x,y) are continuous for t>0, and in every bounded region in x,y (for a fixed t)

they satisfy the Lipschitz condition. Furthermore it is assumed that $\varphi(t,0)\equiv 0$, $x\varphi(t,x)>0$ for $x\neq 0$, $t\geqslant 0$, (A)

 $|f(t,x,y)| \le c(t,x)(1+|y|), \quad t^2+x^2 < \infty$ (B)

where $c(t,z)\geqslant 0$ is continuous. The assumptions guarantee the existence of a solution of (10) (of.§ 3). Under the further assumption that this solution is unique, at first the more general problem

 $\ddot{x} = \varphi(t,x) + \dot{x}f(t,x,\dot{x}),$ (11)

 $x(0) = a, x(\infty) = h$

(111)

Card 3/6

A method for the solution... $\frac{89528}{5/039/61/053/002/003/003}$ is considered, and besides $(T\geqslant 0)$ $\ddot{y} = \Psi_T(t,y) + \dot{y} f_T(t,y,\dot{y}), \qquad (12)$ $y(0) = a, \quad y(\infty) = 0, \qquad (12')$ where $\Psi_T(t,y) = \begin{cases} \Psi(t,y), & 0 \le t \le T \\ \Psi(T,y) & \text{for } t \ge T \end{cases}$ and $f_T(t,y,z) = \begin{cases} f(t,y,z), & 0 \le t \le T \\ f(T,y,z) & \text{for } t \ge T. \end{cases}$

Theorem: Let x(t) be a solution of (11),(11'), and y(t) be an arbitrary solution of (12),(12'). On every finite interval [0,T] then it holds: $x(t)-y(t)\to 0$ and $\dot{x}(t)-\dot{y}(t)\to 0$ for $T\to \infty$. For the solution of (12),(12') it is recommended: If T>0 is fixed then (12) is autonomous for $t \ge T$, and every solution tending to zero can be found if y(T) is known since $\dot{y}(T)=\psi(y(T))$, and the continuously differentiable $\psi(y)$ can be found according to the method of § 1. Then one obtains an ordinary Cauchy problem. Since y(T) is not known, it is recommended to determine it by trying so that x(0)=a.

A method for the solution ...

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In § 3 it is proved:
Theorem 1: Let f(t,x,y) be continuous for t>0, let it satisfy the Lipschitz condition for x and y in every finite region of the halfspace $t\geq 0$, and let $|f(t,x,y)| \leq c(t,x)(1+y^2)$, $t^2+x^2 \leq \infty$, c(t,x) > 0 be continuous. Let exist an M>0 so that f(t,x,0)>0 for x>M and f(t,x,0)<0 for x<M. Then for every a there exists a solution of (14), Theorem 2: Given

X = f(t,x,t),

(16)

where f(t,x,y) is continuous in (t,x,y), non-decreasing in x, in every bounded region it satisfies the Lipschitz condition in x,y; $|f(t,x,y)| \le c(t,x)(1+y^2, t^2+x^2 < \infty, c(t,x) > 0$ continuous. Let $f(t+2\pi,x,y)=f(t,x,y)$, and let the equation f(t,x,0)=0 define a continuous (periodic) curve $x=\beta(t)$, $|\beta(t)| \le M$; for $-M \le x \le M$ let f(t,x,y) be strongly monotonely increasing in x. Then (16) has a unique periodic solution x=c(t) with the period 2π , and for every x=c(t) there exists a unique solution x=c(t) for which: x=c(t)-c(t) for x=c(t).

The author mentions S.N.Bernshteyn. He thanks V.V.Nemytskiy for the Card 5/6

L 07443-67 67 EMP(k)/EMT(d)/EMT(m)/EMP(w)/EMP(w)
AP6035492 (N) SOURCE CODE: U IJP(c) ACC NR SOURCE CODE: UR/0198/66/002/010/0029/0035 AUTHOR: Borisenko, V. I. (Kiev); Klokova, A. I. (Kiev) B Institute of Hechanics, AN UkrSSR (Institutmekhaniki AN UkrSSR) ORG: Postcritical eformation of a cylindrical shell under impact TITLE SOURCE: Prikladnaya mekhanika, v. 2, no. 10, 1966, 29-35 TOPIC TAGS: cylindric shell, shell deformation, shell impact, elastic deformation, elastic impact deformation ABSTRACT: The axisymmetrical elastic deformation of a circular cylindrical shell under longitudinal impactives investigated by using a system of nonlinear equations with the propagation of elastic stress waves taken into account, and without any assumptions concerning the mode of buckling. One end of the shell is fixed, the other end is . axially impacted by a rigid solid moving at a velocity V; the ratio m of the mass of the body to the mass of the shell is given. The analysis of the impact-deformation process in this shell is reduced to solving this nonlinear system with initial and boundary conditions by the method of finite differences, utilizing an explicit scheme whose convergence and stability was checked. The behavior of the shell was studied in Card 1/2

L 071413-67 ACC NR. AP6035492

the time interval in which the longitudinal compression wave propagates along the whole length of the shell, and the first reflected wave comes back. The results from calculating the normal displacements along the shell at various instants of both waves propagating, for the ratio 0.04 (where a is the velocities V/a = 0.0005; 0.001; 0.002; and examined. The qualitative aspect of the shell deformation, especially both the compression and the reflected waves as related to V is distanced and found to be in agreement with the A. Koppa phenomenological theory based on experimental results. Orig. art. has: 5 figures and

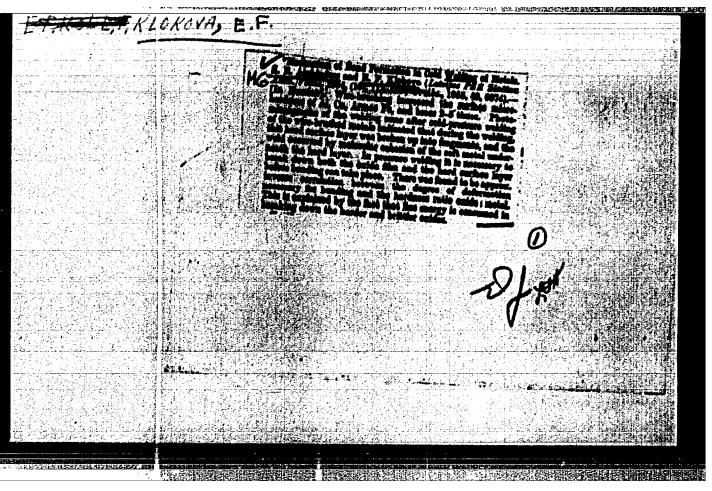
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USSR/Physics - Pinstic deformation

FD - 3160

Card 1/1

Pub. 153 - 16/26

Author

: Aynbinder, S. G.; Klokova, E. F.

Title

Occurrence of cohesion in metals under joint plastic deformation

Periodical

Zhur. tekh. fiz., 25, No 13 (November), 1955, 2356-2364

Abstract

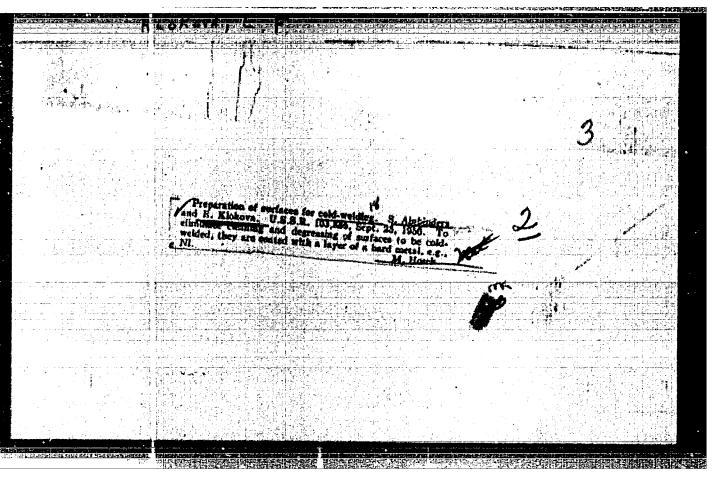
The authors remark that it is now an established fact (V. D. Kuznetsov, Fizika tverdogo tela [Physics of solids], Vol. 4, Tomsk, 1947) that cohesion (stsepleniye) is an important factor in the process of dry friction, which phenomenon is now being employed in the so-called cold welding of metals (i.e. the joining of metal objects by pressure without any heat). In the present article the authors attempt to study the problem of emergence of cohesion under plastic deformation by means of modeling of natural films by galvanic and lacquered films of various thickness and hardness. They also investigated specimens with oxide films obtained electrolytically. They propose an explanation for the phenomenon of gripping in the case of large specific loads and in the presence of lubricants, and explain the phenomenon of lubrication by light metals. They conclude in the latter case that lubricants prevent the gripping of the harder metal of the bearing. Ten references: e.g. 8. G. Aynbinder and E. F. Klokova, Izv. AN Latv. SSR, No 11, 1953.

Submitted

May 26, 1955

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723210012-3"

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8/686/61/000/000/003/012 D207/D303

Aynbinder, S. B. and Klokova, E. F. AUTHORS:

On the theory of adhesion of metals during simultaneous TITLE:

plastic deformation

Soveshchaniye po voprosam teorii sukhogo treniya i obra-SOURCE:

zovaniya chastits iznosa pri sukhom trenii. Riga, 1959,

41-53

TEXT: The authors develop a qualitative theory of adhesion of metals and simultaneous plastic deformation under the action of purely normal loads; the case of combined normal and tangential loads will be dealt with in a separate publication. Adhesion is taken to mean formation of metal bonds between two metal surfaces separated by distances smaller than those between atoms in a lattice. The authors allow for the effect of surface microroughness and of surface films (cold-worked layers, absorbed films, oxides, etc.). The following conclusions are arrived at: 1) Formation of metal "bridges" occurs simply because two metal surfaces are very close to one another Card 1/3

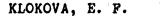
On the theory of ...

8/686/61/000/000/003/012 D207/D303

(distances less than atomic) and it is not necessary to assume supplementary processes such as diffusion, recrystallization, formation of amorphous structure, etc.); 2) the "bridges" may be broken by internal stresses on removal of external loads; 3) if the films present on the surface are soft, the "bridges" are not easily formed except when the films are very thin or when very high loads are applied; 4) if the surface films are brittle, the "bridges" are formed easily. The main part of the paper is concerned with refuting arguments of those, who reject the theory outlined by the present authors. There are 6 figures and 16 references: 12 Soviet-bloc and 4 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: I. M. Parks, British Welding Journal, no. 8, 1953; W. B. Hardy and I. K. Hardy, Note on static friction and on the lubricating properties of certain chemical substances, Cambridge; F. Bowden and D. Tabor, The friction and lubrication of solids, Oxford, 1954; L. R. Vaidyanath, M. G. Nicholas and D. R. Milner, British Welding Journal, 1, 1959.

Card 2/3

1947年,但我们的影響的過程的發展的影響的影響的影響的機能。 使新的现在时间是的分别的第一个第二个数字(1915年)中的主动下午中的对抗不足工程的情報的數据可能可能的數學的



Cand Phys-Math Sci - (diss) "Effect of the condition of surface of metals on the cohesion process in combined plastic deformation." Riga, 1950. 16 pp with illustrations; (Academy of Sciences Latvian SSR, Inst of Automatics and Mechanics); 170 copies; price not given; (KL, 7-61 sup, 219)

3/123/61/000/014/003/045 A004/A101

AUTHOR:

Klokova, E. P.

TITLE:

Metal adhesion under normal conditions and at normal loads

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 14, 1961, 13, abstract 14A93 ("Tr. 3-y Vses, konferentsii po treniyu i iznosu v mashimakh,

v. 1", Moscow, AN SSSR, 1960, 144-151)

The author analyzes the mechanism of metal adhesion at low and small normal loads for metals covered with adsorbed films and metals cleaned with a brush, using Al, Cu, Fe, Sn, and Pb specimens. At low loads, when the surface is covered with thin films, adhesion will not occur, since the film prevents it. At high loads the tendency of metal to adhesion is characterized by the relation between the hardness of the film and that of the metal. Adhesion will arise in all contact points between clean surfaces.

V. Kolesnik

[Abstracter's note: Complete translation]

Card 1/1

KLOKOVA, E. (Riga); LOGINOVA, A. (Riga)

Properties of the surface layers being formed upon the treatment of metals with brush, and the effect of these properties on the process of cohesion. Vestis Latv ak no.9:33-40 160.

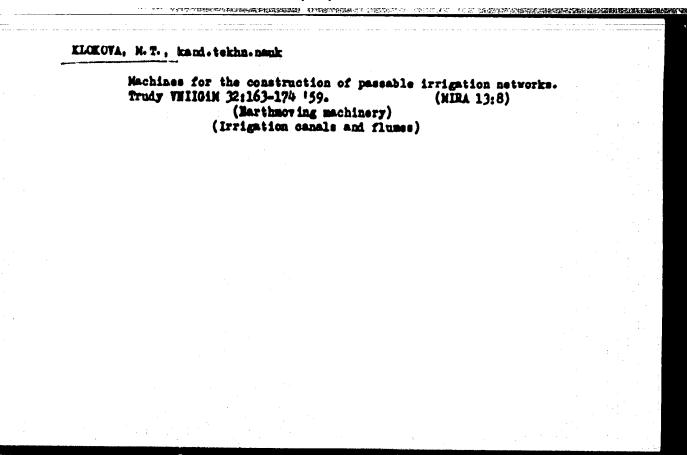
1. Akademiya nauk Latviyskoy SSR, Institut mashinovedeniya.
(Cohesion) (Metals)

, KLOKO	OVA, R. (Riga)	
	Cohesion of different metals in plastic deformation under the of normal loads. Vestis Latv ak no.11:49-58 '60. (EEAI 10:9)	effect
	1. Akademiya nauk Latviyskoy SSR, Institut mashinovedemiya.	
	(Cohesion) (Metals) (Deformation (Mechanics))	

AYMBINDER, S.B.; KLOKOVA, E.F.

Determining the udhesion forces between solids. Dokl. AN SSSR 146 no.5:1058-1060 @ 162. (MIRA 15:10)

1. Predstavleno akademikom P.A.Rebinderom.
(Adhesion) (Friction)



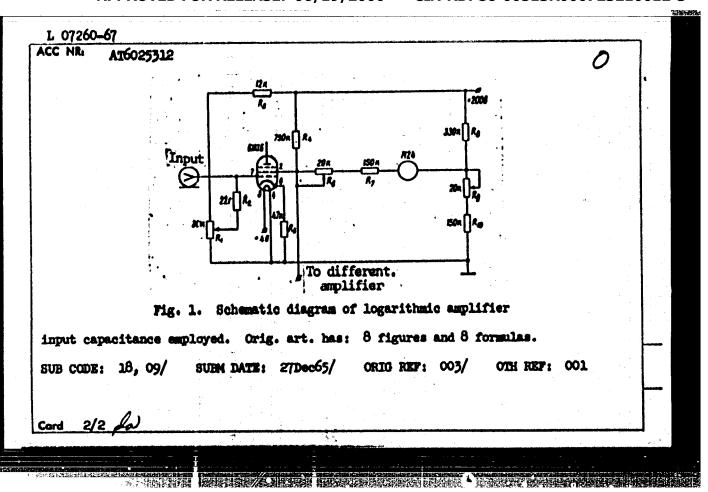
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Klokova, N. P.				4
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L 07260-67 $\operatorname{Ewt}(d)/\operatorname{Ewt}(n)/\operatorname{Ewp}(v)/\operatorname{Ewp}(k)/\operatorname{Ewp}(h)/\operatorname{Ewp}(1)$ JR/GD ACC NRI AT6025312 SOURCE CODE: UR/0000/66/000/001/0106/0115 AUTHOR: Kazachkov, V. I.; Klokova, T. F. ORG: none TITIE: Logarithmic amplifier in the control system of a nuclear reactor SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Upravleniye yadernymi energeticheskimi ustanovkami (Control of nuclear power plants), no. 1. Moscow, Atomizdat, 1966, 106-115 TOPIC TAGS: nuclear reactor control, amplifier stage, volt ampere characteristic ABSTRACT: The authors consider certain characteristics of a triode logarithmic amplifier which is used extensively in devices for control, protection, and automatic starting of reactors (Fig. 1). Methods of determining such characteristics as the input resistance and the time constant of the input circuit are described, and the volt-ampere characteristic is presented for different resistances connected in parallel with its input. An analysis of the circuit operation leads to the following conclusions: 1. The input resistance of the logarithmic amplifier changes appreciably with the measured current. 2. To eliminate errors due to the deformation of the logarithmic-amplifier characteristic at small input currents, it is necessary to apply an initial bias current at the input circuit. 3. The statistical error of logarithmic amplifiers is independent of the measured current. 4. The dynamic error of the logarithmic amplifier does depend on the measured current, the reactor period, or the 1/2 Card



KLOKOVA, T.P., kand.arkhitektury

Hidden opportunities on swine farms. Zhivotnovodstvo 21 no.1:79-82 Ja 159. (MIRA 12:2)

1. Starshiy arkhitektor Instituta gradostroitel'stva i rayonnoy planirovki Akademii stroitel'stva i arkhitektury SSSR.
(Swine houses and equipment)

SALIMOV, M.A.; EABAYEVA, M.L.; KLOKOVA, Ye.I.; MIRMOVSUMOVA, A.M.

Apparatus for visual measurement of light scattering in solutions of polymers. Aserb. khim. shur. no.2:75-79 '63.

(HIRA 16:8)

KRATS, L., inshener-konstruktor; KLOKOVSKIY, M.

Consolidate business connections. HTO 2 no.7:57
J1 60. (MIRA 13:7)

1. Uchenyy sekretar' soveta Manchno-tekhnicheskogo obshchestva vodnogo transporta na Leningradskom savode resinovykh tekhnicheskikh izdeliy (for Klokovskiy). (Leningrad—Shipyards)

RLOKOVSKIY, N.; KRATS, L. Pneumatic-tube transportation in foundries. NEO 3 no.8:59 Ag (61. 1. Uchemyy sekretar' soveta Mauchno-tekhnicheskogo obshchestva Kanonerskogo sudoremontnogo savoda (for Klokovsky). 2. Chlen Nauchno-tekhnicheskogo obshchestva Kanonerskogo sudoremontnogo savoda (for Krata). (Pneumatic-tube transportation)

"中国工作工作的。" 原本的主体的现在形式的 的复数的现在分词 一种的变形的现在分词 的现在分词 "这个人,这些一种一个人,这些一种一个人,这些一种人,我们就会会是这种人的,我们就是这种人的,我们就

KAPKA, V.; SVABENSKA, J.; KLOMINEK, J.

Diaphragnatic hernia in the newborn. Cesk. pediat. 11 no.12: 891-894 Dec 56.

1. Klinika Pediatricke Chirurgie, predn. doc. Dr. Vaclav Kafka.
I. detska klinika KU v Praze, predn. prof. Dr. Josef Svejcar.
III. detska klinika KU v Praze, predn. doc. Dr. Otto Vychytil.
(HERNIA, DIAPHRAGMATIC, in inf. & child
in newborn, surg. (Cs))
(IMFANT, HEMBORN, dis.
diaphragmatic hernia, surg. (Cs))

一个一个大学工作的时,他们还是这些主要的多数的现在分别,但是是是国际的主义的主义的主义的主义,并不是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个

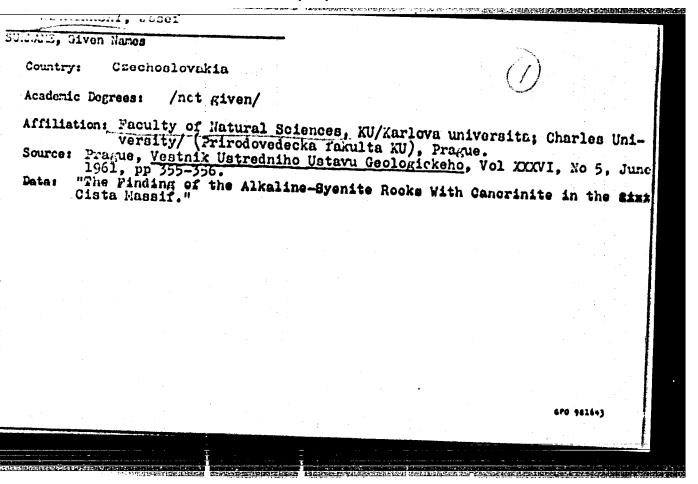
HOLANOVA, L.; KICHINEK, J.; PAPLOVA, H.

Peptic ulcer in Meakel's diverticulum in a 14-year-old boy treated with corticoids. Cesk. pediat. 19 no.6:526-527 Je'64

1. III. detska klinika fakulty vseobecneho lekarstvi KU [Karlovy university] v Prase (prednosta: prof. dr. O. Vychytil) a Chirurgicka klinika fakulty detskeho lekrastvi KU [Karlovy university] v Prase (prednosta: prof. dr. V.Kafka).

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CHRT, Jiri; KLOMINSKY, Josef

Mineralization of Telnice granodiorite rocks in Erzgebirge. Vest ust gool 39 no.21 117-126 Mr*64

1. Ustredni ustav geologicky, Praha; Geologicky pruzkum, Praha.

KLMINSKY, Josef

Pisolitic magnetite from the gallery driven water 13 icvac Hountain in Brzegahirga. Can min gael 9 nc. 164.

1. Central Caclogical Institute, Frague.

CZECHOSLOVAKIA

KLOMINSKY, J.

Central Geological Institute (Ustredni ustav geologicky), Prague

Prague, Casopis pro mineralogii a geologii, No 3, 1964, pp 329-

"Pisolitic Magnetite from the Gallery near Elinovec in the Erusne Hory Mountains."

SATTRAN, Vladimir; FISERA, Milan; KLCMINSKY, Josef

The genetic relation of tin and gold emiogenous deposits to the Variacian magmatism of the Bohemian Hessif. Vent Upt geol 39 no. 6:435-439 N '64.

1. Central Goological Institute, Frague and the Faculty of Natural Sciences of Charles University, Frague. Submitted November 29, 1963.

KLOMINSKY, J.

CZECHOSLOVAKIA

KLOMINSKY, J; SATTRAN, V.

Central Geological Institute (Ustredni ustav geologicky), Prague (for both)

Prague, <u>Vestnik ustredniho ustavu geologickeho</u>, No 5, 1963, pp 341-345

"Origin of Skarns in the Central Part of the Krusne Hory Mountains (Erzgebirge)."

GAIL-PECZALSKA, Kasimiera; KAPUSCINSKA-CZERSKA, Wanda; KARLOWICZ, Karola; KLON, Maria.

Adrenogenital syndrome with electrolyte disorders in siblings. Pediat. pol. 37 no.10:1059-1066 0 162.

1. Z I Kliniki Chorob Dsieci AM w Warssavie Kierownik: prof. dr med.
R. Baranski i s Miejskiego Sspitala Dsieciecego w Warssavie — Saska Kepa, Dyrektor: dr med. S. Bielobradek.

(ADRENOGENITAL SYNDROME) (ELECTROLYTES)

之一一个作用中央中央,在600年间通过1000年间的中国,在2000年间,在1000年间,1000年间

BARTKOWIAK, A.; HIRNLE, Z.; MICHECKI, W.; PRUS, S.

Statistical studies of the influence of brucella abortus infection on Crocker's transmissible sarcoma in mice. Acta medica polona (Warssawa) 1 no.3/4:243-248 '60.

1. Institute of Mathematics, Department of Applied Mathematics in Natural Science and Economy of the Polish Academy of Sciences, Wroclaw, Director: Professor H. Steinhaus and Department of Pathological Anatomy, Medical Academy, Wroclaw, and Department of Experimental Oncology of the L. Hirssfeld Institute of Immunology and Experimental Therapy, Wroclaw Director: Professor Z. Albert M.D.

(BRUCELLOSIS exper) (SARCOMA exper) (MEOPLASMS exper)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723210012-3"

BARTKOWIAKOWA, Anna; HIRELE, Ebigniew; KLONECKI, Witold; PRUS, Stanislaw

Statistical studies on the effect of Brucella abertus on transplantable Crocker's sarcoma in mice. Postepy hig. med. dosw 14 no.1:85-90 '60.

1. Z Instytutu Matematyki PAN we Wroclawiu, Dział Zastosowan Przyrodniosych i Gespodarczych, Kierownik: prof. dr H. Steinhaus, (SARCOMA exper.) (BRUCZIJA ABORTUS)

一个自己的主人的全国国际,自然或者被逐渐被影响的强烈。 医克勒特氏检查氏征 "我只是这个人,我们不知识,我们不知识,这一个人,就是不是我的人,我们是不是我们的人

KLOHOWICZ, Maria

Anourysmal dilatation of the left auricle. Polski tygod.lek. 10 no.221716-719 30 May 155.

1. Z I Zakladu Chorob Wewnetsnych Instytut Doskonalenia i Specjalizacji Kadr Lekarskich w Warszawie; kierownik: prof. dr. med. A. Landau i prof. dr Hed. B. Wieniewski) Warszawa, ul. Karlowicza 1/7 m. 114.

(HEART, aneurysm

dilatation of left auricle, with rheum., diag.)

(RHEUMATIC HEART DISEASE, complications
aneurysmal dilatation of left auricle, diag.)

KLOHOWICZ, Maria (Varssava, ul. Karlovicsa 1--? m. 114)

Relation of venous pressure to blood volume and serum sodium content in circulatory insuficiency with edema. Polski tygod. lek. 13 no.19 717-723 12 May 1958

1. (S I Sakladu Chorob Wewnetrsnych Institutu Doskonalenia i Specjalizacji Kadr Lekarskich w Warssawie; Kierownictwo; prof. dr A. Landau i prof. Dr B. Wisniewski).

(CONCESTIVE HEART-FAILURE, physiology, blood volume, venous pressure & blood sodium, interrelationship (Pol))

(BLOOD VOLUME, in var. dis.

congestive heart failure, relation to venous pressure and blood sodium (Pol))

(SODIUM, in blood,

in congestive heart failure, relation to blood volume & venous pressure (Pol))

(BLOOD PRESSURE, in var. die.

congestive heart failure, relation to blood volume and blood sodium (Pol))

13 mg 引动性 化四颗性分 的复数经常的数据的图式 4 cm-4-

MICHOWICZ, Maria

Dependence between venous pressure, amount of circulating blood and amount of blood sodium in patients with circulatory failure with edema. Polskie arch. ned. wewn. 28 no.4:560 1958.

1. Z I Zakladu Chorob Wewnetrsnych Inst. Doskonalenia i Specj. Kadr.. Lekarskich w Warssawie Kierownik: prof. dr. med. B. Wisniewski. (COMDETIVE HEART FAILURE, physicl.

relation between venous pressure, circulating blood volume & blood sodium level in patients with edema (Pol))

(BLOOD PRESURES, in various dis.

congestive heart failure with edema, relation of venous
pressure to circulating blood volume & blood sodium (Pol))

(BLOOD VOLUME, in various discongestive heart failure with edema, relation to venous pressure & blood sodium (Pol))

(SCDIUM, in blood in congestive heart failure with edema, relation to cicrulating blood volume & venous pressure (Pol))

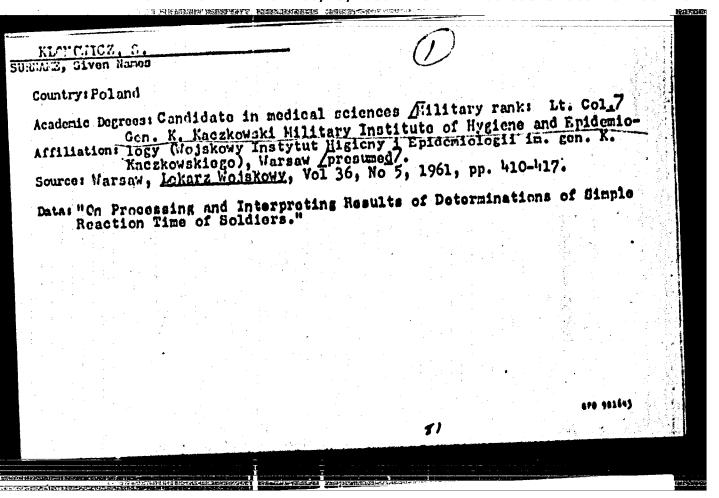
自己中华对各进程的根据中的理解的证明的,**和企图和包括图形的规模,图像第17回的**的数据,形式是1975年1277年,1976年1277年1277年1277年,1976年1277年1277年1277年1277年1277年1277

KLOHOWICZ, Maria; DLOUHY, Wojciech; RADWAH Leszek

A case of pancytopenia associated with pregnancy toremia. Gin. polska 31 no.3:333-338 My-Je *60.

1. Z I Zakladu Chorob Wewnetrenych Studium Doekonnlenia Lekarsy A.M. Kierownik: prof. dr med. W.Hartwig (AMENIA APLASTIC in pregn) (PERGNANCY TOKENIAS compl)

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L 02204-67 EMP(m) WW ACC HR: AP6032601 SOURCE CODE: PO/0032/66/013/003/0357/0363

AUTHOR: Klonowska, Maria E. (Warsaw); Luczywek, Eugeniusz (Warsaw); Prosnak, Włodzimierz J. (Warsaw) 78 B

ORG: none

TITLE: Mach number and specific heat ratio effects in axisymmetric flow on the distance of the shock wave

SOURCE: Archiwum budowy maszyn, v. 13, no. 3, 1966, 357-363

TOPIC TAGS: detached shock wave, axisymmetric flow, stagnation point, shock wave physics, axisymmetric supersonic flow, shock stand off distance, Mach number effect, specific heat ratio effect, integral relation computation method, computer programming/GIER digital computer

ABSTRACT: The distance between a <u>detached shock wave</u> and the stagnation point on the flat nose of a circular cylinder in axisymmetric supersonic flow was computed by the integral relations method, in order to investigate the influence of the Mach number and the specific heat ratio on shock standoff distance. The computa-

Card 1/2

。 1. 大利的。由于大学的政治的,这种关键的数据,对理解证据的证明,不是不是不是不是不是不是不是不是,但是是不是不是,就是是是是不是的。 1. 大利的。由于大学的数据,这种关键的数据,对理解证明的证明,不是是是一种,但是是一种,但是是一种,但是是一种,但是是一种,但是是一种,但是是一种,但是是一种,

tions were performed in 20 cases with different Mach numbers and specific heat ratios. The programming for the GIER digital computer used was developed by co-author Luczywek. Comparison of computed values and experimental data yielded no essential discrepancies. Orig. art. has: 4 figures, 1 table, and 4 formulas. [Based on authors' abstract] SUB CODE: 09, 20/ SUBM DATE: 00Nov65/ ORIG REF: 002/ SOV REF: 001/ OTH REF: 001/		6032601							
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BARTOSZEWSKI, Adam; STEPKOWSKA, Irena; KLOHOWSKI, Henryk

Trichomogin in the treatment of Trichomonas infections in humans. Polski tygod.lek. 14 no.51:2236-2239 21 Dec. '59.

1. Z I Kliniki Polosnicsej i Chorob Kobiecych A.M. w Lublinie; kierowniki prof.dr. St. Ldebhart. (ARTIBIOTICS ther.) (TRICHOMOMAS IMPRETIONS ther.)

TROJNACKI, Zdzislaw; KLONOWSKI, Henryk; BOKINIEC, Michal

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Application of hydrocortisons into the uterine cavity as a therapeutic method in post-inflammatory obstruction of the fallopian tubes. Ginek. Pol. 33 no.1:137-140 * 162.

1. Z I Kliniki Polosnictwa i Chorob Kobiecych AM w Lublinie Kierownik: prof. dr S. Liebhart.

(FALLOPIAN TUBES dis) (HYDROCORTISONE ther)

POLAND

TROJNACKI, Zdzislaw and KLONOWSKI, Henryk, First Clinic of Obstetrics and Gynecology (I Klinika Poloznictwa i Chorob Kobiecych), AM [Akademia Medyczna, Medical Academy] in Lublin (Director: Prof. Dr. med. S. LIEBHART)

"Results of Local Application of Hydrocortisone in Inflammations of the Uterine Appendages."

Warsaw-Krakow, Przeglad Lekarski, Vol 19. Ser II, No 2, 28 Feb 63, pp 153-155.

Abstract: [Authors' English summary modified] Authors obtained good results treating patients with inflammation of the endometrium and uterine appendages by local administration of hydrocortisone solution together with antibiotics of wide-range action. Solution was introduced into the region of the appendages by puncture of the lateral fornix of the vagina, starting with 150 ml, and gradually reducing the dose. ACTH, Vitamin C, PP, and Rutinoscorbin were given together with the cortisone every fifth day. There are 42 references, of which 18 are Polish, 15 distinctly Western, and 9 in the German language.

TROJNACKI, Zdzielaw; WOLANSKI, Zbigniew; KLONOWSKI, Henryk

Treatment of subacute and chronic adnexitis with Enkorton (prednisone). Ginek. pol. 34 no.4:407-502 163.

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Diseases of the paranasal sinuses in the rural population.

Ann. Univ. Imblin sect. D 19:337-342 * 64.

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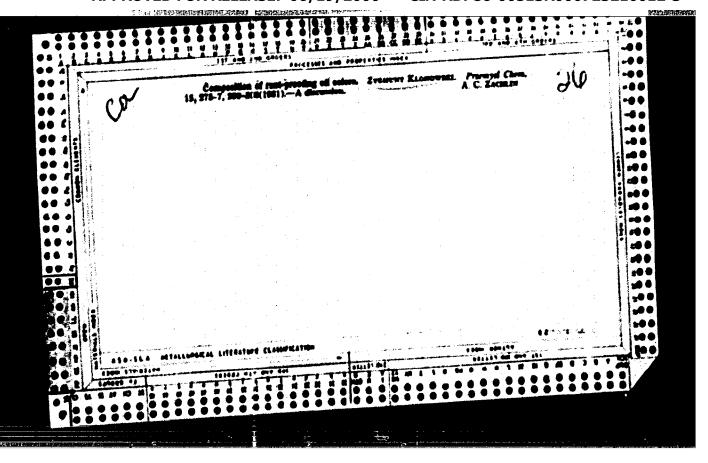
Antoni Olssewski, lek.).

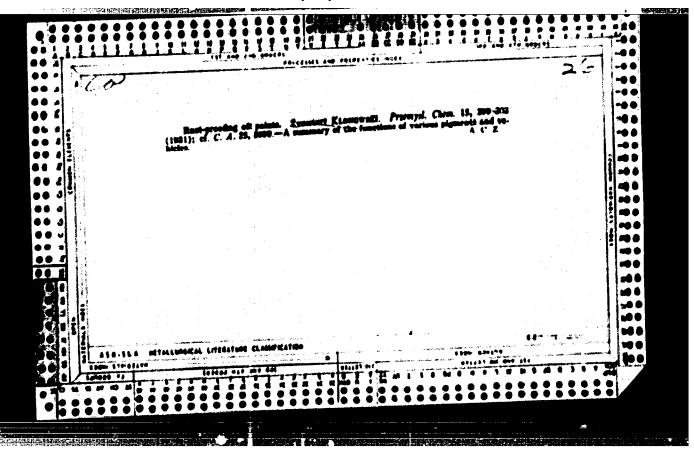
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KIONOMSKI, Z.:& ENCPF, M.:

"Red Lead Paints and a Quick Hethod of Their Determination," Przemysl Chemniczny, No. 3, 1956.

T. LOCASUSKI, Z

Poland/Chemical Technology. Chemical Products and Their Application -- Lacquers. Paints. Drying oils. Siccatives, I-22

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6217

Author: Klonowski, Z., Knopf, M.

Institution: None

Title: Paints Containing Red Lead and a Rapid Method for Their Evaluation

Original

Publication: Przem. chem., 1956, 12, No 1, 43-47

Abstract: Description of the properties of red lead (I) to which is attributed the inhibiting effect of coatings containing I, on progress of electrochemical corrosion of iron. New formulas of paints containing I have been developed. Content of I in the paints has been reduced from 85% to 51 and 34%, depending on the intended use of the paint. Procedures utilized heretofore for testing corrosion inhibiting paints, are characterized. The underlying principle of the proposed method of testing consists in carrying out determinations of the potential of a steel electrode, coated with the paint, as a function of time.

Card 1/2

Poland/Charles Per Poland Paints. Drying oils. Siccatives, 1-22

Abst Journal: Referat Zhur - Khiniya, No 2, 1957, 6217

Abstract: There are described the apparatus, measuring procedure, preparation of the surfaces and painting of the steel electrodes. The electrode is in the shape of a rod. Evaluation of the results of tests is done on the basis of the curve showing change in potential values with time; very good anti-corrosion properties of the paints being characterized by a very rapid initial increase of the potential, for instance from -100 to 0 mv, after which the curve becomes horizontal. Good properties of the paints are characterized by a gradual increase of the potential, for instance from -200 to -100 mv, followed by a gradual and slight decrease thereof with time. Satisfactory properties are indicated by a rapid drop of potential which becomes stabilized, thereafter, at its lower value (for instance from -100 to -350 mv). Poor qualities are characterized by a low value of the potential, for example of -500 to -600 my. An anomalous course is observed on use of passivating pigments soluble in water. Examination of changes in external appearance of the coatings helps in the interpretation of the results of potentionetric determinations.

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1. Chair of Hydraulic Engineering of the Faculty of Building of the Slovak Higher School of Technology, Bratislava.

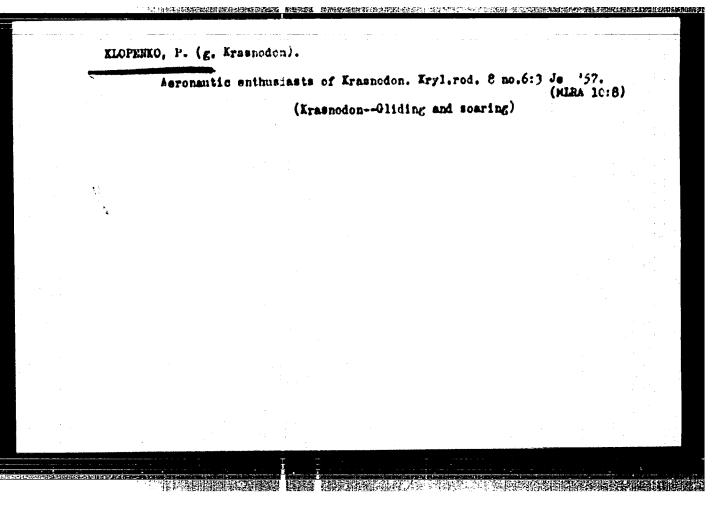
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EHDELYBZKY, Zeigmond; KiOPFIR, Ervin; KOSTKA, Pal; PASZTOR, Endre

An electrostatic accelerator of the Budapest University of
Technical Sciences serving educational purposes. Kos fiz kosl

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PASZTOR, Endre; KLOPFER, Ervin

Portable neutron generator for activation analysis. Koz fiz kozl

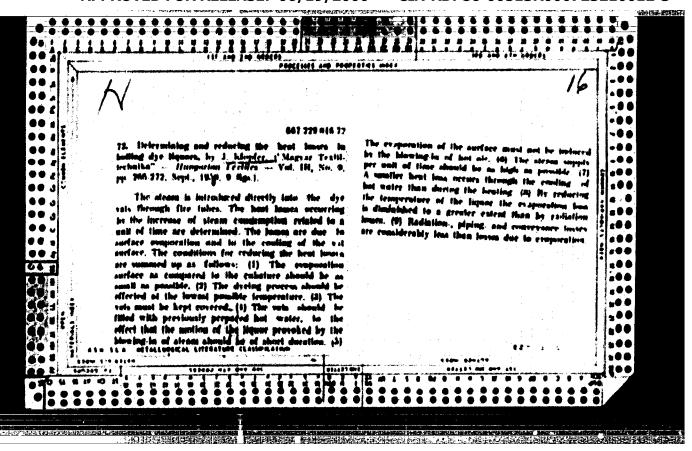
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WINKLER, P.; KLOPPER, P.

Treatment of acute ctitis in infant and child with penicillin spray. Orv. hetil. 92 no.11:351-352 18 Mar 1951. (CLML 24:2)

1. Doctors. 2. Third Pediatric Clinic (Head Physician -- Dr. Pal Winkler) and Third Mar, Mose, and Throat Clinic (Head Physician -- Dr. Gyorgy Magy) of Peterfy Sandor-utcai Metropolitan Hospital (Director and Head Physician -- Dr. Pal Sellner),

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POLAND / General and Specialized Zoology - Insects.

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 20919

the pharmaceutic industry reached about 30%.

Card 2/2

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Ugletekhizdat, 99 P. Illus.,	Diagra., Graphs, Tables.	

